TABLE OF CONTENTS

Volume 84

ARTICLES

A.R. BROWN and A.L.M. GRANT / Non-Local Mixing of Momentum in the Convective Boundary Layer 1–22

MICHAEL J. DWYER, EDWARD G. PATTON and ROGER H. SHAW / Turbulent Kinetic Energy Budgets from a Large-Eddy Simulation of Airflow Above and Within a Forest Canopy 23–43

JÖRG HARTMANN, CHRISTOPH KOTTMEIER and SIEGFRIED RAASCH / Roll Vortices and Boundary-Layer Development During a Cold Air Outbreak 45–65

CHERYL McKENNA NEUMAN and MARIANNE MALJAARS / Wind Tunnel Measurement of Boundary-Layer Response to Sediment Transport 67–83

J.R. PHILIP / Blending and Internal Boundary-Layer Heights, and Shear Stress 85–98

WENJUN CHEN, MICHAEL D. NOVAK and T. ANDREW BLACK / Coherent Eddies and Temperature Structure Functions for Three Contrasting Surfaces. Part I: Ramp Model with Finite Microfront Time 99–123

WENJUN CHEN, MICHAEL D. NOVAK and T. ANDREW BLACK / Coherent Eddies and Temperature Structure Functions for Three Contrasting Surfaces. Part II: Renewal Model for Sensible Heat Flux 125–147

KATJA HENJES / Isotropic and Anisotropic Correlations in Turbulent Wind Speed Data 149–167

Book reviews

I.R. Young and G.J. Holland, *Atlas of the Oceans: Wind and Wave Climate* (S.D. SMITH and Y. GESHELIN) 169–171

J.H.C. Gash, C.A. Nobre, J.M. Roberts, and R.L. Victoria, *Amazonian Deforestation and Climate* (DENNIS BALDOCCHI) 173–174

MANJU MOHAN and T.A. SIDDIQUI / An Evaluation of Dispersion Coefficients for Use in Air Quality Models 177–206

JOSEPH LEVITIN and HARRY D. KAMBEZIDIS / Numerical Modelling of the Thermal Internal Boundary-Layer Evolution Using Athens Field Experimental Data 207–217

A. WENZEL, N. KALTHOFF and V. HORLACHER / On the Profiles of Wind Velocity in the Roughness Sublayer Above a Coniferous Forest 219–230

C. WAMSER, G. PETERS and V.N. LYKOSSOV / The Frequency Response of Sonic Anemometers 231–246

DAPENG XU and PETER A. TAYLOR / An $E - \epsilon - \ell$ Turbulence Closure Scheme for Planetary Boundary-Layer Models: The Neutrally Stratified Case 247–266

DAPENG XU and PETER A. TAYLOR / On Turbulence Closure Constants for Atmospheric Boundary-Layer Modelling: Neutral Stratification 267–287
FRED C. BOSVELD / Derivation of Fluxes from Profiles over a Moderately Homogeneous Forest 289–327

Research Note
E.J. BURKE and J.B. STEWART / Test of a Sensible Heat Flux – Radiometric Surface Temperature Relationship for Hapex-Sahel 329–337
MEELIS MÖLDER / Parameterization of Exchange Processes Over a Barley Field 341–361
K.V.J. POTTY, U.C. MOHANTY and S. RAMAN / Effect of Three Different Boundary-Layer Parameterisations in a Regional Atmospheric Model for the Stimulation of Summer Monsoon Circulation 363–381
X. LEE, H.H. NEUMANN, G. DEN HARTOG, J.D. FUENTES, T.A. BLACK, R.E. MICKLE, P.C. YANG and P.D. BLANKEN / Observation of Gravity Waves in a Boreal Forest 383–398
SUSUMU OIKAWA and YAN MENG / A Field Study of Diffusion Around a Model Cube in a Suburban Area 399–410
JOHN D. WILSON and THOMAS K. FLESCH / Trajectory Curvature as a Selection Criterion for Valid Lagrangian Stochastic Dispersion Models 411–425
J.M. HOBSON and N. WOOD / Trailing Vortices in Flow Around Smoothly Shaped Obstacles 427–466
M.R. IRVINE, B.A. GARDINER and M.K. HILL / The Evolution of Turbulence Across a Forest Edge 467–496

Correspondence
N.J. BINK and A.G.C.A. MEESTERS / Comment on 'Estimation of Surface Heat and Momentum Fluxes Using the Flux-Variance Method Above Uniform and Non-Uniform Terrain' by Katul et al. (1995) 497–502
GABRIEL KATUL and CHENG-I HSIEH / Reply to the Comment by Bink and Meesters 503–509

Volume Contents 511–512
Author Index 513
Subject Index 515
The 'KLUWER' LaTeX Style File 175, 399, 517